3-D Printed Habitat - Structural Member Competition

Completed Technology Project (2016 - 2017)

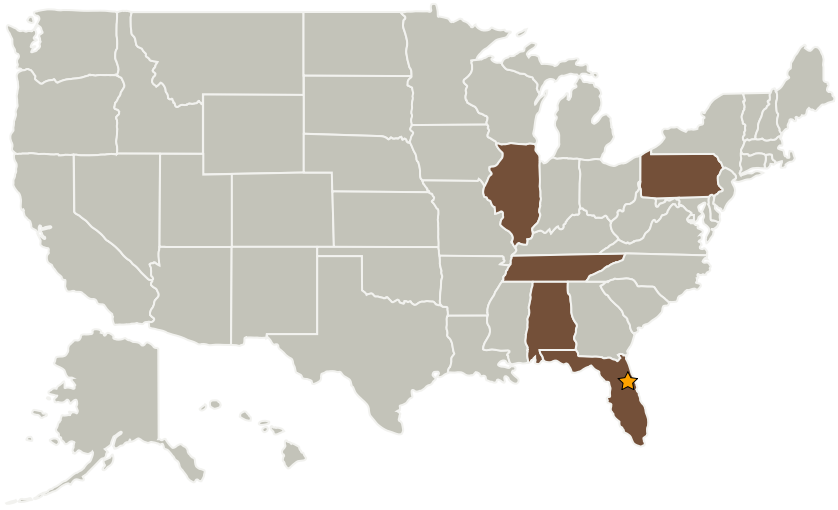
Project Introduction

Structural Member: Demonstrate a recycling additive manufacturing material system that can create structural components using terrestrial/space based materials and recyclables.

Anticipated Benefits

The long-term vision is that habitat-manufacturing machines could someday be deployed to the Moon, Mars or beyond to autonomously prepare shelters for the human explorers who follow.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Kennedy Space Center(KSC)	Lead Organization	NASA Center	Kennedy Space Center, Florida
Bradley University	Supporting Organization	Academia	Peoria, Illinois

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Table of Contents

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Kennedy Space Center (KSC)

Responsible Program:

Prizes, Challenges, and Crowdsourcing

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Primary U.S. Work Locations	
Alabama	Florida
Illinois	Pennsylvania
Tennessee	

Project Management

Program Director:

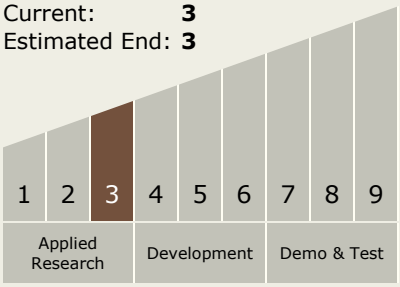
Amy P Kaminski

Program Manager:

Monserrate C Roman

Technology Maturity (TRL)

Start: **3**
Current: **3**
Estimated End: **3**



Technology Areas

Primary:

- TX07 Exploration Destination Systems
  - TX07.2 Mission Infrastructure, Sustainability, and Supportability
    - TX07.2.3 Surface Construction and Assembly

Target Destination

Mars